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**REVOCATION OF POWER OF  
ATTORNEY and APPOINTMENT  
OF  
NEW POWER OF ATTORNEY**

Application Number	10/614,410
Filing Date	July 2, 2003
First Named Inventor	Sverrir Olafsson
Art Unit	2643
Examiner Name	Unknown
Attorney Docket Number	SILA:239C1

I hereby revoke all previous powers of attorney or authorizations of agent given in the above-identified application:

☒ A Power of Attorney or Authorization of Agent is submitted herewith.

OR

☐ I hereby appoint the practitioners at Customer Number :

☒ Please change the correspondence address for the above-identified application to:

☐ The address associated with  
Customer Number:

OR

<input checked="" type="checkbox"/> Firm or Individual Name	Richard D. Egan					
Address	O'Keefe, Egan & Peterman, LLP					
Address	1101 Capital of Texas Highway South, Suite C-200					
City	Austin					
Country	USA	State	Texas	ZIP	78746	
Telephone	512-347-1611	Fax	512-347-1615			

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

*Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)*

**SIGNATURE of Applicant or Assignee of Record**

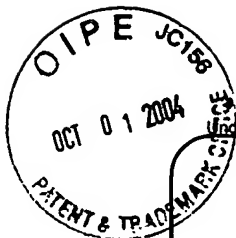
Name	Nestor F. Ho, Chief Legal & Intellectual Property Counsel, Silicon Laboratories Inc.					
Signature	<i>Nestor Ho</i>					
Date	<i>Sept 24, 2004</i>		Telephone	512-464-9295		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*

**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

<b>Application Number</b>	10/614,410
<b>Filing Date</b>	July 2, 2003
<b>First Named Inventor</b>	Sverrir Olafsson
<b>Art Unit</b>	2643
<b>Examiner Name</b>	Unknown
<b>Attorney Docket Number</b>	SILA:239C1

I hereby appoint:

☐ Practitioners at Customer Number

OR

☒ Practitioner(s) named below:

Name	Registration Number
Richard D. Egan	36,788
Brian W. Peterman	37,908
Maximilian R. Peterson	46,469
Nestor F. Ho	39,460

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☒ Firm or  
Individual Name Richard D. Egan

Address O'Keefe, Egan &amp; Peterman, LLP

Address 1101 Capital of Texas Highway So., Suite C-200

City Austin State Texas ZIP 78746

Country USA

Telephone 512-347-1611 Fax 512-347-1615

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

**SIGNATURE of Applicant or Assignee of Record**

Name Nestor F. Ho, Chief Legal &amp; Intellectual Property Counsel, Silicon Laboratories Inc.

Signature *Nestor Ho*Date *Sept. 24, 2004* Telephone 512-464-9295

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Sverrir Olafsson, et al.

Filed: July 2, 2003

For: METHOD AND APPARATUS FOR QUICK MODEM RECONNECT

Serial No.: 10/614,410

Group Art Unit: Unknown

Examiner: Unknown

Atty Dkt: SILA:239C1

Pursuant to 37 C.F.R. 1.8, I certify that this correspondence is being deposited with the U.S. Postal Service in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date below:

9-27-04  
Date

Diane C. Potts  
Name

Commissioner For Patents  
P. O. Box 1450  
Alexandria, VA 22313

**STATEMENT UNDER 37 C.F.R. §3.73(b),  
ELECTION UNDER 37 C.F.R. §3.71, and  
POWER OF ATTORNEY**

Sir:

This document provides a Statement under §3.73 by the Assignee, an Election by the Assignee under §3.71 to prosecute at the exclusion of the inventor(s), and a Power of Attorney from the Assignee.

Statement Under §3.73(b)

The undersigned states that it is the Assignee of the entire right, title and interest in the Patent application identified above by virtue of either:

A. ☐ An Assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☒ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: Sverrir Olaffson & Burk Beadle To: Conexant Systems, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_,  
Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: Conexant Systems, Inc. To: PCTEL, Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_,  
Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: PCTEL, Inc. To: Silicon Laboratories Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_,  
Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (*i.e.*, the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

Election under §3.71

The Assignee hereby elects under 37 C.F.R. §3.71 to prosecute the application to the exclusion of the inventor(s).

Power of Attorney

The Assignee revokes any previous Powers of Attorney and appoints Robert M. O'Keefe, Reg. No. 35,630; Richard D. Egan, Reg. No. 36,788; Brian W. Peterman, Reg. No. 37,908, William W. Enders, Reg. No. 41,735, and Maximilian R. Peterson, Reg. No. 46,469, each an attorney of the firm of O'KEEFE, EGAN & PETERMAN, LLP, as its attorney for so long as they remain with such firm, and Nestor F. Ho, Reg. No. 39,460, of Silicon Laboratories, Inc. with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive any Letters Patent, and for one year after issuance of such Letters Patent to file any request for a certificate of correction that may be deemed appropriate.


Future Communications

Please direct all communications as follows:

Richard D. Egan  
O'KEEFE, EGAN & PETERMAN, LLP  
1101 Capital of Texas Highway South  
Building C, Suite 200  
Austin, Texas 78746  
512/347-1611  
FAX 512/347-1615

ASSIGNEE:

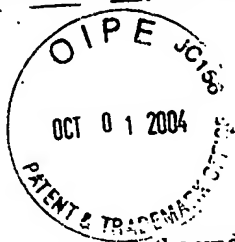
SILICON LABORATORIES INC.

By:   
(Signature)

Name: Nestor F. Ho

Date: Sept. 24, 2004

Title: Chief Legal And Intellectual Property Counsel



# ASSIGNMENT

## UTILITY PATENT

WHEREAS, the undersigned inventors (hereinafter singly and collectively, "ASSIGNOR") of the addresses indicated below, have invented subject matter disclosed in the United States patent application entitled: METHOD AND APPARATUS FOR QUICK MODEM RECONNECT, filed herewith;

AND WHEREAS, CONEXANT SYSTEMS, INC. (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, having its principal place of business and mailing address at 4311 Jamboree Road, Newport Beach, California 92660 is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

AND HEREBY AGREES to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

First inventor: SVENDIR OLAFSSON

Signature: [Signature]

Residence address: THINGHOLTSSTRAETI 14, 101 REYKJAVIK, ICELAND

Date: Sept 9, 1999

Second inventor: BURK BEADLE

Signature: \_\_\_\_\_

Residence address: \_\_\_\_\_

Date: \_\_\_\_\_

STATE OF \_\_\_\_\_  
COUNTY OF \_\_\_\_\_

On this day, \_\_\_\_\_, before me, \_\_\_\_\_,  
a notary public in and for said county, personally appeared: BURK BEADLE,

- ☐ personally known to me or  
☐ proved to me on the basis of satisfactory evidence

to be the person whose names is subscribed to the within instrument and acknowledged to me that  
he executed the same in his authorized capacity, and that by his signatures on the instrument the  
person, or the entity upon behalf of which the person acted, executed the instrument

WITNESS my hand and official seal.

\_\_\_\_\_  
Signature of Notary Public

**ASSIGNMENT****UTILITY PATENT**

**WHEREAS**, the undersigned inventors (hereinafter singly and collectively, "ASSIGNOR") of the addresses indicated below, have invented subject matter disclosed in the United States patent application entitled: METHOD AND APPARATUS FOR QUICK MODEM RECONNECT, filed herewith;

**AND WHEREAS**, CONEXANT SYSTEMS, INC. (hereinafter "ASSIGNEE"), a corporation organized and existing under and by virtue of the laws of the State of Delaware, having its principal place of business and mailing address at 4311 Jamboree Road, Newport Beach, California 92660 is desirous of acquiring an interest therein;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the invention as described in the aforesaid application, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives,

**AND HEREBY AGREES** to transfer a like interest upon request of ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements and applications for patents based thereon, growing out of or relating to the invention; and to provide all reasonable assistance and execute any papers deemed essential by ASSIGNEE, its successors, assigns and legal representatives, to ASSIGNEE's full protection and title in and to the invention hereby transferred,

**AGREEING, FURTHERMORE**, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

**EXECUTED** as of the date(s) written below by ASSIGNOR:

First inventor: SVERRJR OLAFSSON

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence address: \_\_\_\_\_

Second inventor: BURK BEADLE

Signature:  \_\_\_\_\_ Date: 9/9/99

Residence address: 20 WHISTLING ISLE, IRVINE CA 92614



STATE OF California  
COUNTY OF Orange

On this day, 9 September 1999, before me, Heather Spence,  
a notary public in and for said county, personally appeared: BURK BEADLE,

☐ personally known to me or  
☒ proved to me on the basis of satisfactory evidence

to be the person whose names is subscribed to the within instrument and acknowledged to me that  
he executed the same in his authorized capacity, and that by his signatures on the instrument the  
person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal:

Heather Spence  
Signature of Notary Public



## PATENT ASSIGNMENT AGREEMENT

This Patent Assignment Agreement is entered into as of \_\_\_\_\_, 2003 ("Effective Date"), between PCTEL, Inc., a corporation organized and existing under the laws of the State of Delaware ("Assignee"), and Conexant Systems, Inc., a corporation organized and existing under the laws of the State of Delaware ("Assignor"). All parties to this Agreement are domiciled in the United States of America.

Whereas, Assignor is the owner of all right, title and interest in and to the attached list of patent applications (the "Patents") and Assignors wish to assign all right, title and interest in and to the Patents to Assignee for good and valuable consideration pursuant to that certain May 12, 2003 Intellectual Property Assignment and Cross-License Agreement between the parties;

Now therefore the parties agree as follows:

Assignor hereby assigns to Assignee all rights, title and interests in and to the Patents, including the right to sue and recover for past and present infringement thereof. Assignee hereby accepts such assignment.

Conexant Systems, Inc.

By: Dennis E. O'Reilly

Name: Dennis E. O'Reilly

Title: Sr. VP, General Counsel and Secretary

PCTEL, Inc.

By: Murt H Singer

Name: MH Singer

Title: Chairman / CEO

Executed this 17 day of JUNE, 2003.

State of California )

) ss.

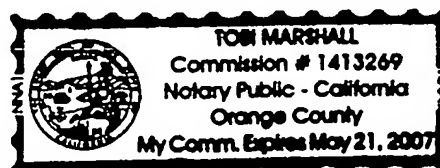
County of Orange

On June 17, 2003, before me, Tobi Marshall personally appeared Dennis E. O'Reilly personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me

that he executed the same in his authorized capacity(ies), and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Tobi Marshall



# LIST OF PENDING UNITED STATES PATENT APPLICATIONS

Application Number	Filing Date	Application Title
09/264,065	3/8/99	Separating Commands and Data Using Logical Channels
09/298,667	4/23/99	Low Voltage Transistors in a High Voltage Environment
09/312,136	5/14/00	Electronic Inductor With Transmit Signal Telephone Line Driver
09/359,584	7/22/99	A Method and System for Modem Pulse Dialing in a Telecommunication System
09/393,616	9/10/99	Modem on Hold
09/394,018	9/10/99	Method and Apparatus for Quick Modem Reconnect
09/397,414	9/16/99	Programmable Constant Current "Off Hook" Circuit
09/496,843	2/2/00	Methods and Apparatus for Adaptive PCM Level Estimation and Constellation Training
09/549,765	4/14/00	Signal Calibration for an Integrated Modem Receiver
09/616,579	7/14/00	Apparatus, System, and Method for Efficient Reduction of Electromagnetic Interference in Telecommunications Equipment
09/676,742	9/29/00	Surge Protection For A Data Access Arrangement
09/771,010	1/26/01	Communications System Which Dynamically Switches Sizes of Sample Buffer Between First Size for Quick Response Time and Second Size for Robustness to Interrupt Latency
09/849,501	5/4/01	Method and Apparatus for Training Linear Equalizers in a PCM Modem
09/962,779	9/25/01	Impedance Compensation in Interfacing a Modem to a Telephone Line
10/032,776	10/26/01	Data Access Arrangement Utilizing a Serialized Digital Data Path Across an Isolation Barrier
10/060,152	1/29/02	Method and Apparatus for Identifying the Encoding Type of a Central Office Codec
09/945,480	8/31/01	Utilization of In-Band Signaling to Facilitate Modem on Hold

Conexant DEO Date 6/17/03

PCTEL MHS Date 6/19/03

## EXHIBIT B

### ASSIGNMENT

This Assignment is made and entered into as of 8/2, 2004 by and between PCTEL, Inc., a Delaware corporation with offices at 8725 W. Higgins Road, Suite 400, Chicago, IL 60631 ("Assignor") and Silicon Laboratories Inc., a corporation, with offices at 4635 Boston Lane, Austin, TX 78735 ("Assignee"). All parties to this Agreement are domiciled in the United States of America.

1. Assignment of Patents and Applications. Assignor sells, assigns and transfers to Assignee its entire right, title and interest in and to the patents and applications listed in Exhibit A, including its right to sue for past, present and future infringement.

PCTEL, Inc.

By: Martin H. Singer  
Print: Martin H. Singer  
Title: Chairman & CEO  
Date: August 12, 2004

Silicon Laboratories Inc.

By: David P. Bresnahan  
Print: DAVID P. BRESNAHAN  
Title: VP/Gm Wireline  
Date: August 23, 2004

## EXHIBIT A

### Patents and Patent Applications to be Assigned to Silicon Laboratories Pursuant to Section 3.1

Patent or Application #	Title	Foreign Counterpart Country and Patent or Application #
6,088,385	Flexible and Scalable Rate ADSL Transceiver and system	
6,233,250	System and Method for Reducing Latency in Software Modem for High-speed Synchronous Transmission	Europe: Application # 99960328.5 Japan: Application # 2000-583203
09/789,336	System and Method for Reducing Latency in Software Modem for High-speed Synchronous Transmission (Continuation)	
6,400,759	Device Driver for Rate Adaptable Modem with Forward Compatible and Expandable Functionality	
5,146,472	Method For Imbedding Information In Modem Handshake Procedure And Modems Incorporating The Same	Canada: Patent # 2,078,866 France: Patent # 0522047 European: Patent # 0522047 Germany: Patent # 69132208 Great Britain: Patent # 0522047
5,862,184	Mapper for high data transmission through channels subject to robbed bit signalling.	Canada: Application # 2,284,768
5,982,814	Dynamic control of processor utilization by a host signal processing modem.	
6,002,713	PCM Modem equalizer with adaptive compensation for RBS	Canada: Application # 2,306,111
6,112,266	Software circular buffer	Europe: Application # 99300353.2 Hong Kong: Application # 00101337.0 Japan: Patent# 3388708
6,272,171	Robbed bit signalling identification.	Japan: Application # 2000-596683 Korea: Application # 10-2001-7009585
6,512,787	Digital impairment learning method and system	
6,542,551	Translation table & constellation design for PCM modem subjected to alternate RBS.	Canada: Application # 2,308,825 Korea: Application# 1-2000-0027225 Taiwan: Patent # NI-144525 (Publication #463475)
09/393,616	Modem on Hold	Europe: Application # 00960151.9 Japan: Application # 2001-513166 Taiwan: Patent# NI-190690 (Publication #561772)
6,768,791	Method and Apparatus for Quick Modem Reconnect	

10/614,410	Method and System for Quick Modem Reconnect (Continuation)	
09/945,480	Utilizing in Band Signaling	
09/264,065	Separating Commands and Data	